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HIP AND KNEE REPLACEMENT SURGERY PRIORITY CRITERIA TOOL

PLEASE PRINT CLEARLY

Provincial Health Care Number: _____

Patient Name: _____

Patient Age: _____ Sex: [circle one] M F

[Tick one box] ☐ Left Hip ☐ Right Hip ☐ Left Knee ☐ Right Knee[Tick one box] ☐ Primary ☐ Revision

Diagnosis: _____

Surgeon's Name: _____ Phone: _____

Date: _____

Patients must be on appropriate non-surgical treatment prior to evaluation (e.g. medications, walking aids, shoe inserts)

Please check the box that most accurately describes the patient's current situation

1. Pain on motion (e.g. walking, bending): *

- ☐ None/mild
☐ Moderate
☐ Severe

2. Pain at rest (e.g. while sitting, lying down, or causing sleep disturbance): *

- ☐ None
☐ Mild
☐ Moderate
☐ Severe

** Take into account usual duration, intensity, and frequency of pain, including need for narcotic vs. non-narcotic medication.*

3. Ability to walk without significant pain :

- ☐ Over 5 blocks
☐ 1-5 blocks
☐ <1 block
☐ Household ambulator

4. Other functional limitations (e.g. putting on shoes, managing stairs, sitting to standing, sexual activity, bathing, cooking, recreation or hobbies):

- ☐ No limitations
☐ Mild limitations - able to do most activities with minor modifications or difficulty
☐ Moderate limitations - able to do most activities with modification or assistance
☐ Severe limitations - unable to perform most activities

(PRIOR ART)

FIGURE 1

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5. Abnormal findings on physical exam related to affected joint (e.g. deformity, instability, leg length difference, restriction of range of motion on examination):
- ☐ None/mild
 - ☐ Moderate
 - ☐ Severe
6. Potential for progression of disease documented by radiographic findings (e.g. recurrent dislocation, x-ray evidence of protrusion, significant bone loss, component wear, impending fracture):**
- ☐ None
 - ☐ Mild
 - ☐ Moderate
 - ☐ Severe
- ** Predominantly applies to revisions, use in primary cases only in special circumstances (e.g. ligament instability, bone loss)
7. Threat to patient role and independence in society (i.e. ability to work, give care to dependants, live independently (difficulty must be related to affected joint)):
- ☐ Not threatened but more difficult
 - ☐ Threatened but not immediately
 - ☐ Immediately threatened or unable
8. All things considered, how would you rate the urgency or relative priority of this patient?
(Draw a line across the scale.)

Not Urgent at all

Extremely Urgent
(just short of an emergency)

9. In your clinical judgement what should be the maximum waiting time for this patient?
Number of weeks _____ OR Number of months _____
10. In your practice how long would it take this patient to have surgery done from the time you first see the patient?
Number of days _____ OR Number of weeks _____ OR Number of months _____

Please record any comments on the form, criteria or process: _____

(PRIOR ART)

FIGURE 2

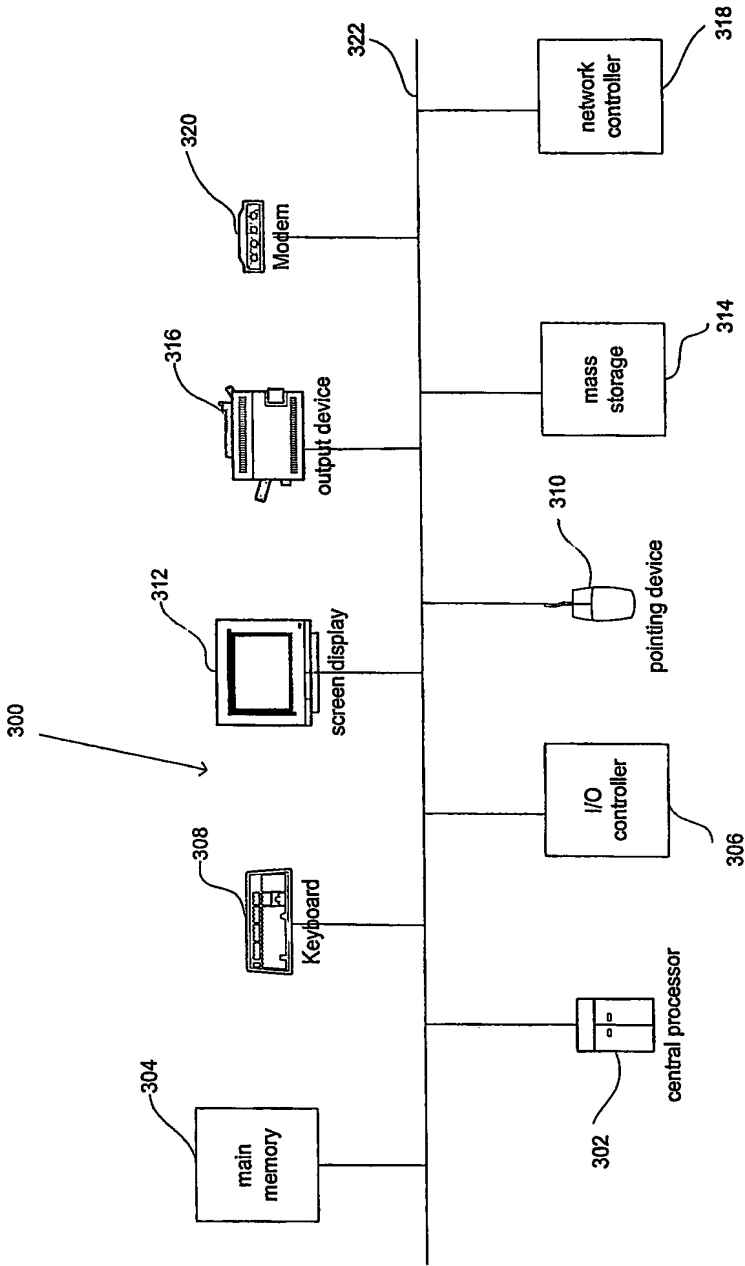


FIGURE 3

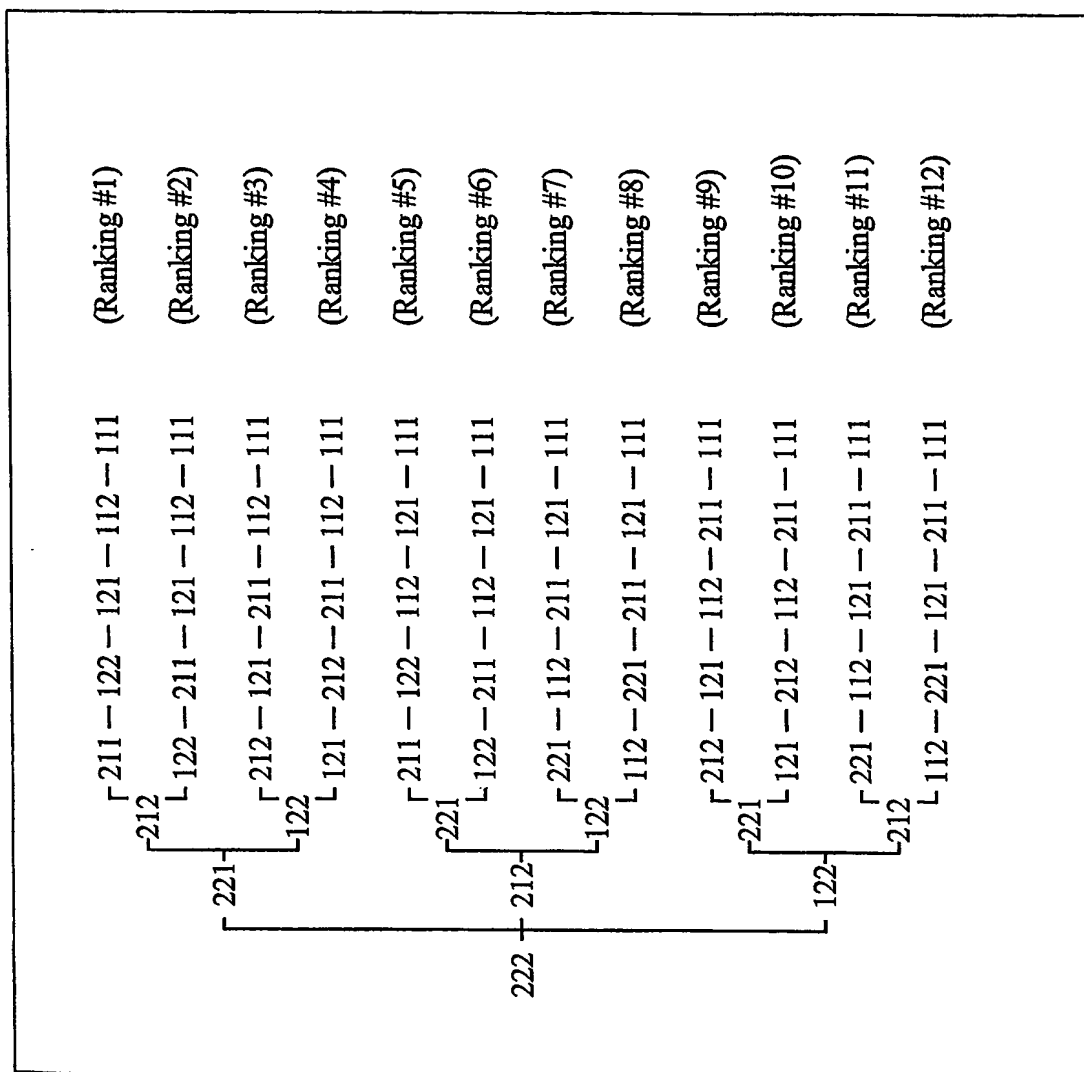
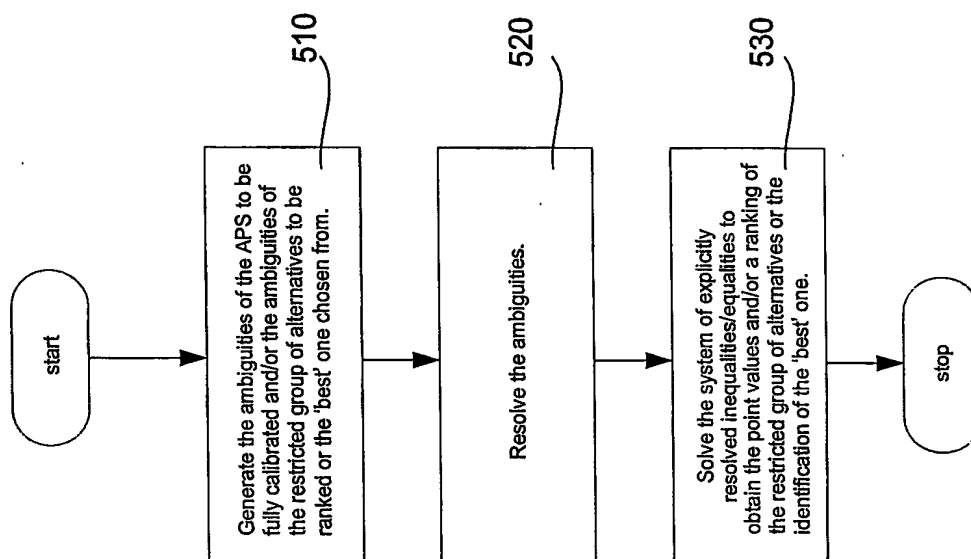


FIGURE 4

**FIGURE 5**

versus (vs)	221 $a2+b2+c1$	212 $a2+b1+c2$	122 $a1+b2+c2$	112 $a1+b1+c2$	121 $a1+b2+c1$	211 $a2+b1+c1$
221 $a2+b2+c1$		$b2+c1$ vs $b1+c2$	$a2+c1$ vs $a1+c2$	$a2+b2+c1$ vs $a1+b1+c2$	n.a.	n.a.
212 $a2+b1+c2$			$a2+b1$ vs $a1+b2$	n.a.	$a2+b1+c2$ vs $a1+b2+c1$	n.a.
122 $a1+b2+c2$				n.a.	n.a.	$a1+b2+c2$ vs $a2+b1+c1$
112 $a1+b1+c2$					$b1+c2$ vs $b2+c1$	$a1+c2$ vs $a2+c1$
121 $a1+b2+c1$						$a1+b2$ vs $a2+b1$
211 $a2+b1+c1$						

FIGURE 6

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Criteria (x)	Categories (y)	Profiles (y')	Pairwise comparisons $y'(y' - 1)/2$	Degrees	Total ambiguities (Equation 1)	Unique ambiguities (Equation 2)
3	2	8	28	2 nd	6	3
				3 rd	3	3
				<i>All degrees:</i>	9	6
3	3	27	351	2 nd	81	27
				3 rd	81	81
				<i>All degrees:</i>	162	108
3	4	64	2,016	2 nd	432	108
				3 rd	648	648
				<i>All degrees:</i>	1,080	756
4	2	16	120	2 nd	24	6
				3 rd	24	12
				4 th	7	7
				<i>All degrees:</i>	55	25
4	3	81	3,240	2 nd	486	54
				3 rd	972	324
				4 th	567	567
				<i>All degrees:</i>	2,025	945
4	4	256	32,640	2 nd	3,456	216
				3 rd	10,368	2,592
				4 th	9,072	9,072
				<i>All degrees:</i>	22,896	11,880
4	5	625	195,000	2 nd	15,000	600
				3 rd	60,000	12,000
				4 th	70,000	70,000
				<i>All degrees:</i>	145,000	82,600
5	2	32	496	2 nd	80	10
				3 rd	120	30
				4 th	70	35
				5 th	15	15
				<i>All degrees:</i>	285	90
5	3	243	29,403	2 nd	2,430	90
				3 rd	7,290	810
				4 th	8,505	2,835
				5 th	3,645	3,645
				<i>All degrees:</i>	21,870	7,380

FIGURE 7

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Criteria	Categories	Profiles	Pairwise comparisons	Degrees	Total ambiguities (Equation 1)	Unique ambiguities (Equation 2)
(x)	(y)	(y')	$y'(y'-1)/2$			
5	4	1,024	523,776	2 nd	23,040	360
				3 rd	103,680	6,480
				4 th	181,440	45,360
				5 th	116,640	116,640
				<i>All degrees:</i>	<i>424,800</i>	<i>168,840</i>
5	5	3,125	4,881,250	2 nd	125,000	1,000
				3 rd	750,000	30,000
				4 th	1,750,000	350,000
				5 th	1,500,000	1,500,000
				<i>All degrees:</i>	<i>4,125,000</i>	<i>1,881,000</i>
6	2	64	2,016	2 nd	240	15
				3 rd	480	60
				4 th	420	105
				5 th	180	90
				6 th	31	31
				<i>All degrees:</i>	<i>1,351</i>	<i>301</i>
6	3	729	265,356	2 nd	10,935	135
				3 rd	43,740	1,620
				4 th	76,545	8,505
				5 th	65,610	21,870
				6 th	22,599	22,599
				<i>All degrees:</i>	<i>219,429</i>	<i>54,729</i>
6	4	4,096	8,386,560	2 nd	138,240	540
				3 rd	829,440	12,960
				4 th	2,177,280	136,080
				5 th	2,799,360	699,840
				6 th	1,446,336	1,446,336
				<i>All degrees:</i>	<i>7,390,656</i>	<i>2,295,756</i>
10	4	1,048,576	549,755,289,600	2 nd	106,168,320	1,620
				3 rd	1,274,019,840	77,760
				4 th	7,803,371,520	1,905,120
				5 th	30,098,718,720	29,393,280
				6 th	77,755,023,360	303,730,560
				7 th	135,444,234,240	2,116,316,160
				8 th	153,584,087,040	9,599,005,440
				9 th	102,792,499,200	25,698,124,800
				10 th	30,898,215,936	30,898,215,936
				<i>All degrees:</i>	<i>532,756,338,76</i>	<i>68,646,770,676</i>

FIGURE 8

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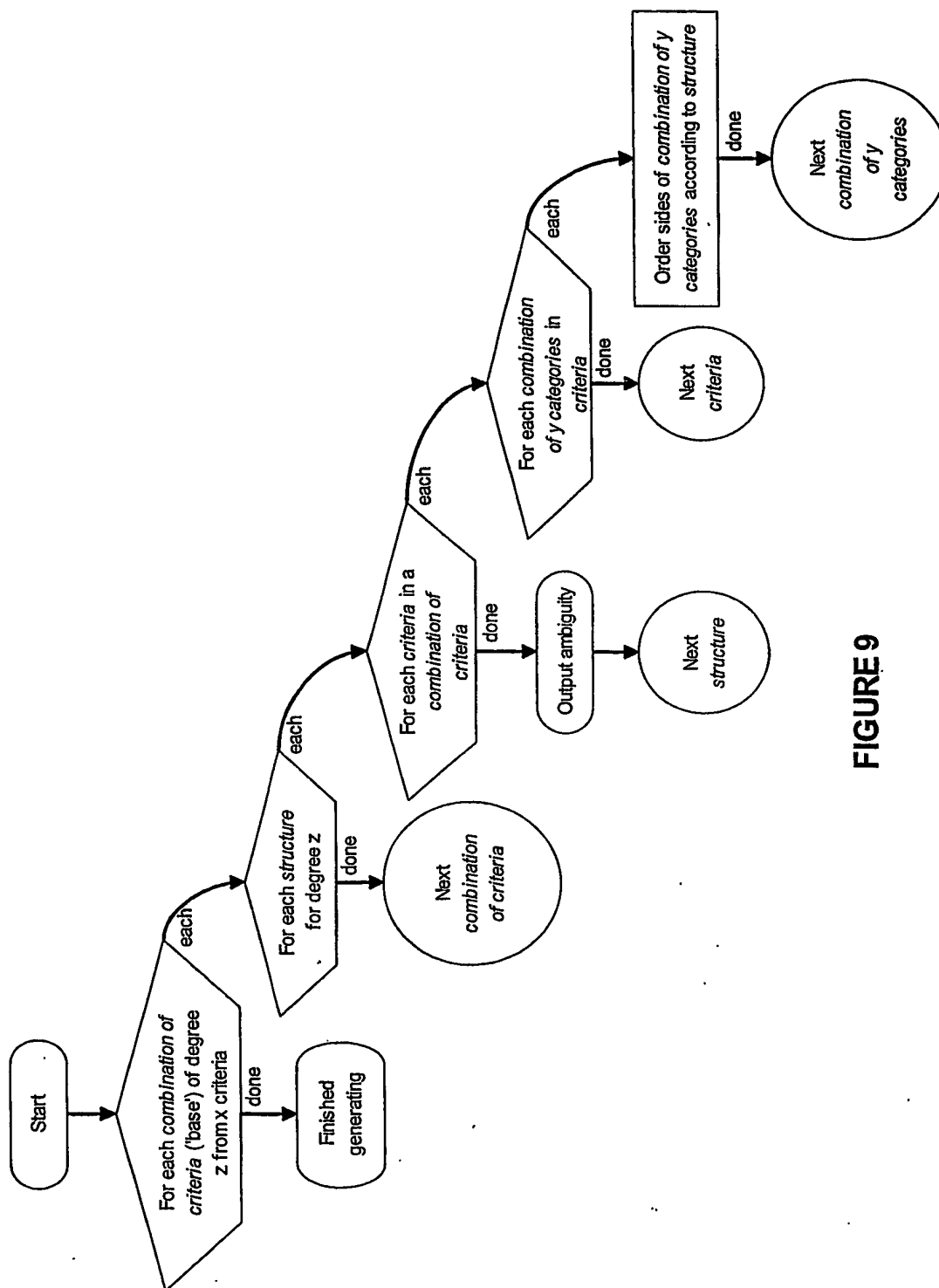


FIGURE 9

3 rd -degree ambiguity	Sufficient conditions for LHS > RHS of the 3 rd -degree ambiguity
(4) $a2 + b2 + c1$ vs $a1 + b1 + c2$	$a2 + c1 > a1 + c2$ or $a2 + c1 = a1 + c2$ or $b2 + c1 > b1 + c2$ or $b2 + c1 = b1 + c2$
(5) $a2 + b1 + c2$ vs $a1 + b2 + c1$	$b1 + c2 > b2 + c1$ or $b1 + c2 > b2 + c1$ or $a2 + b1 = a1 + b2$ or $a2 + b1 = a1 + b2$
(6) $a1 + b2 + c2$ vs $a2 + b1 + c1$	$a1 + c2 > a2 + c1$ or $a1 + c2 = a2 + c1$ or $a1 + b2 > a2 + b1$ or $a1 + b2 = a2 + b1$

FIGURE 10

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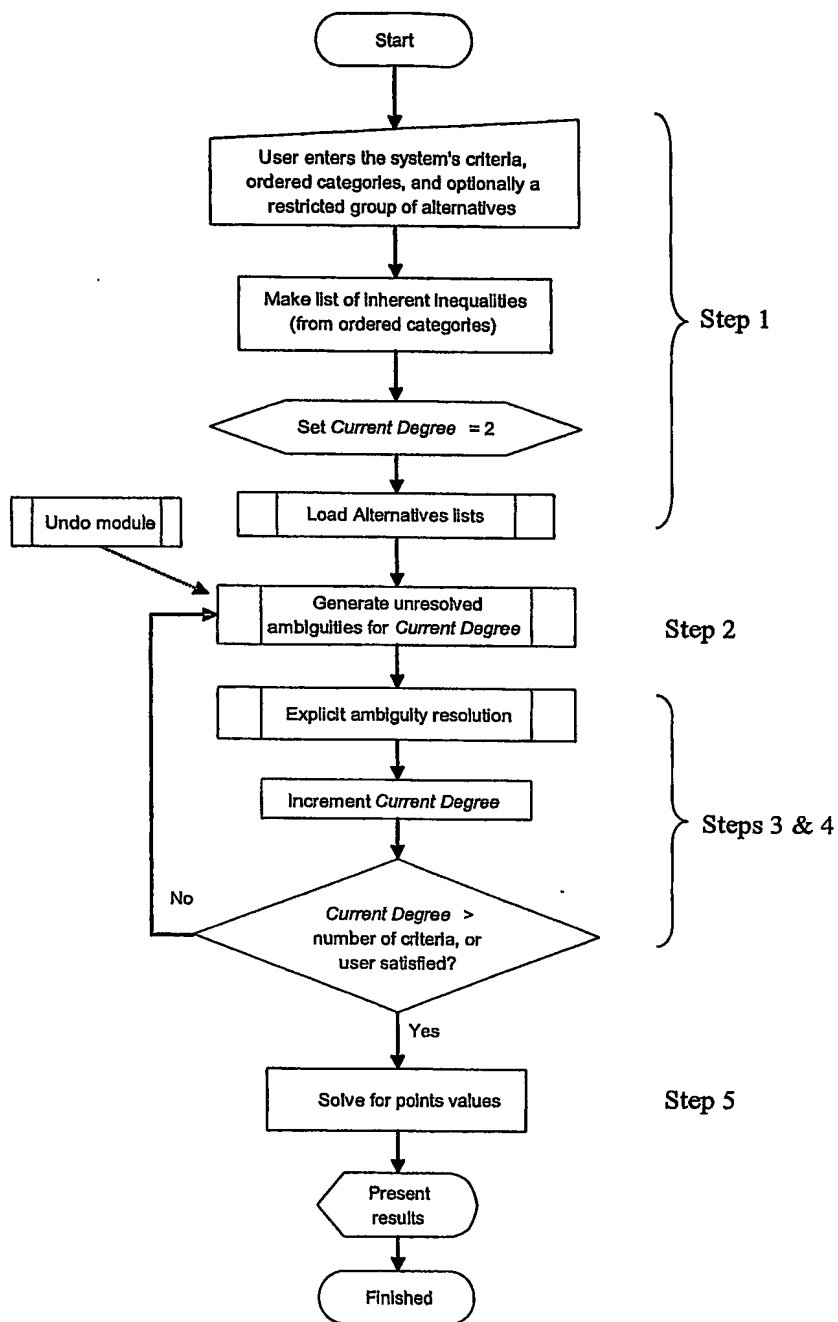


FIGURE 11

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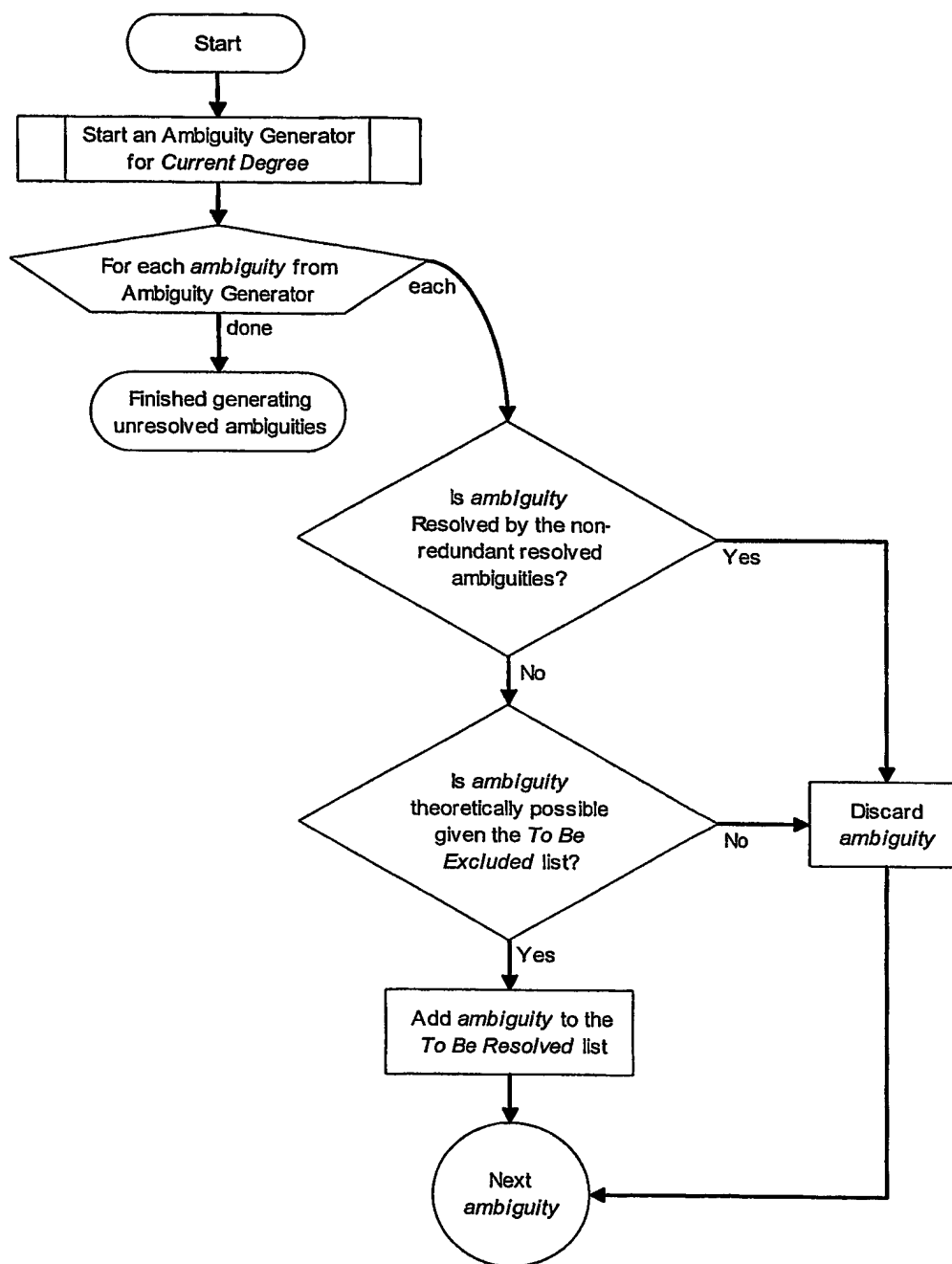


FIGURE 12

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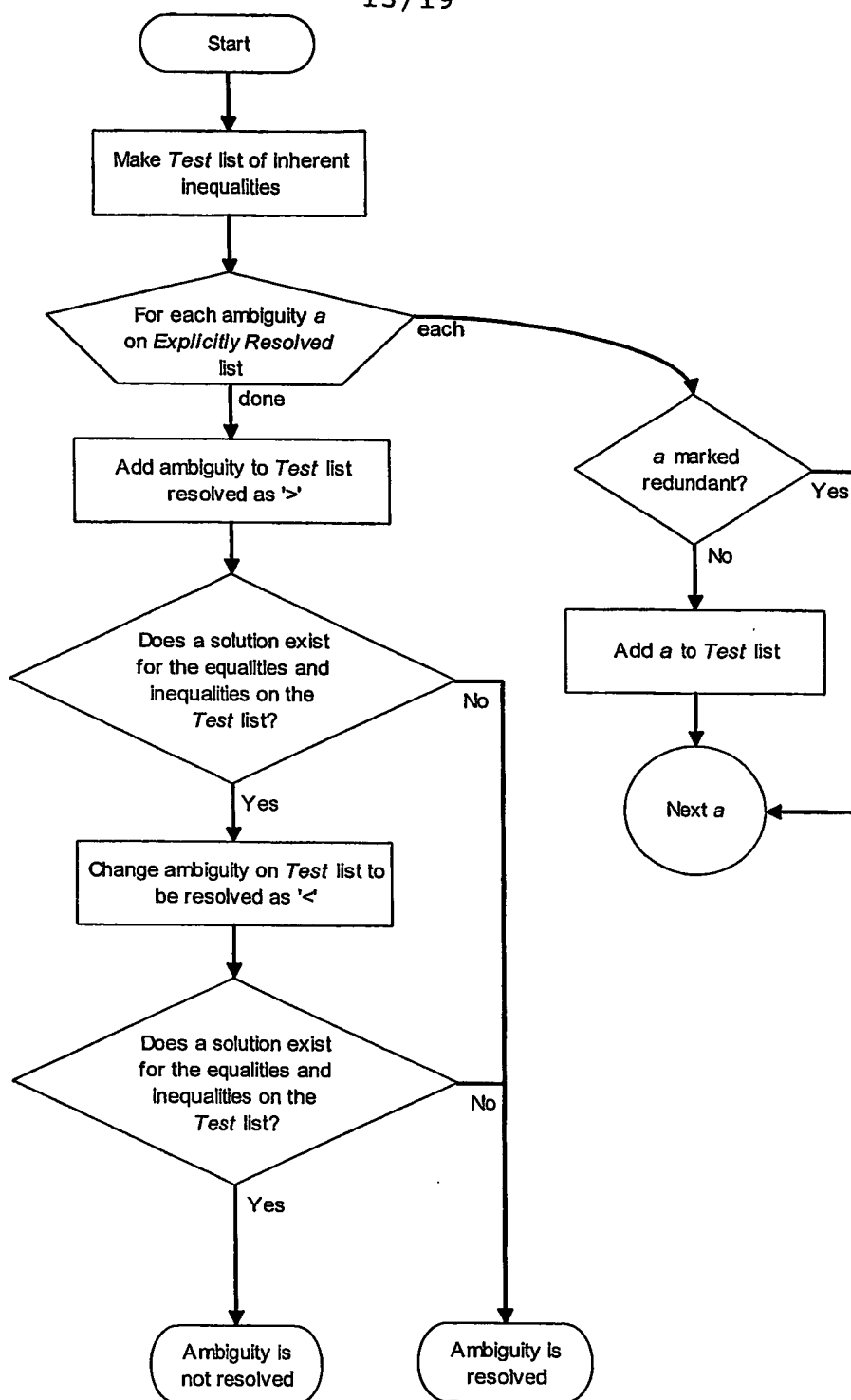


FIGURE 13

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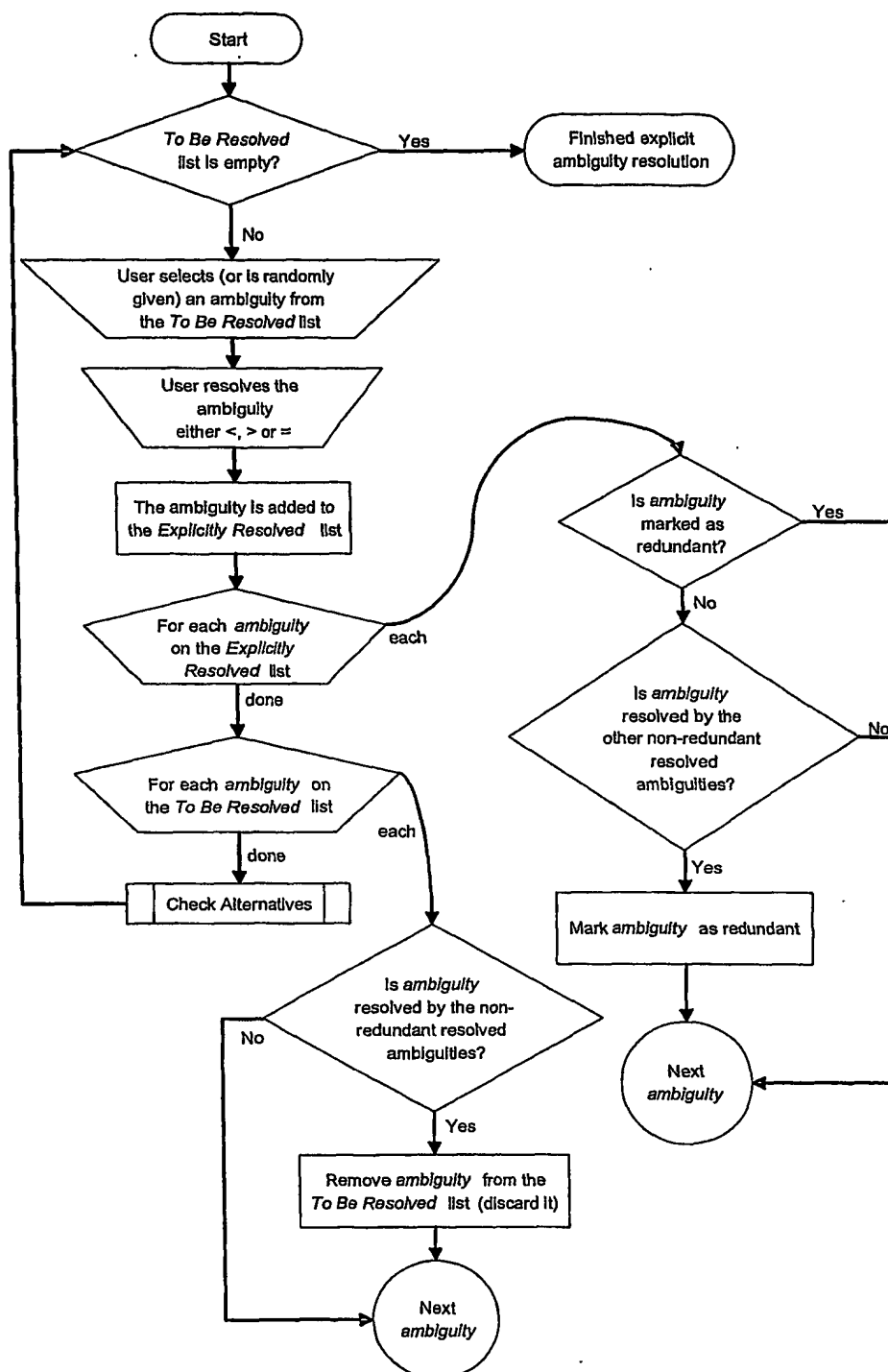


FIGURE 14

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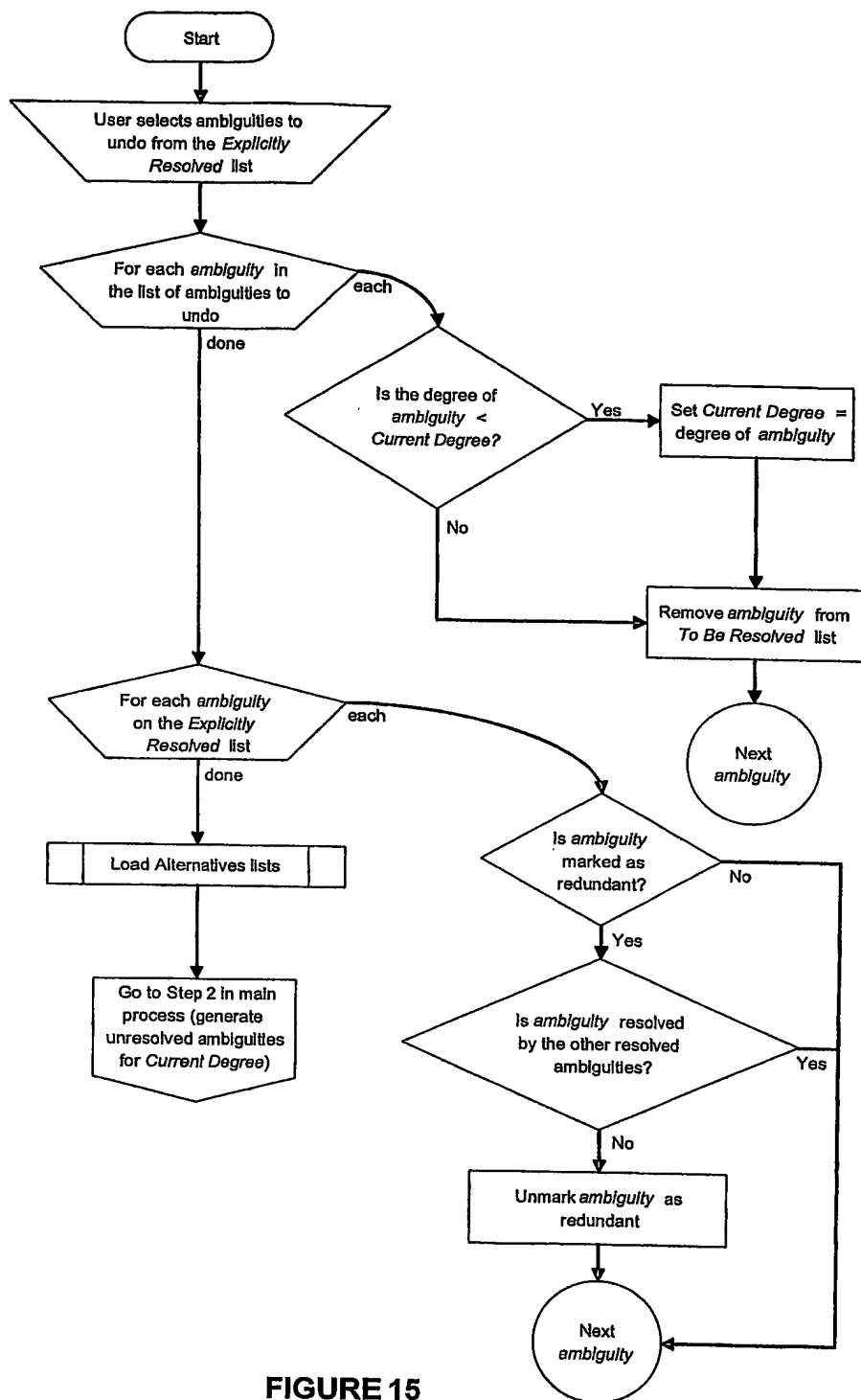


FIGURE 15

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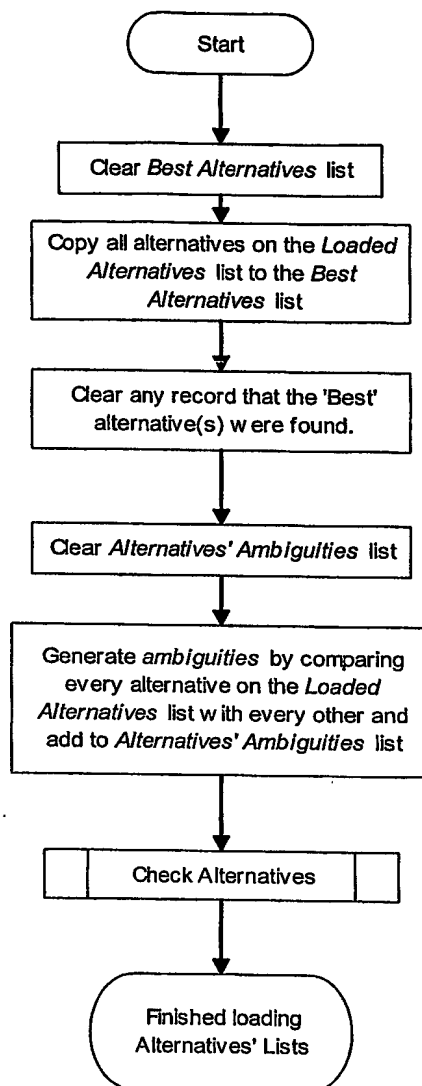


FIGURE 16

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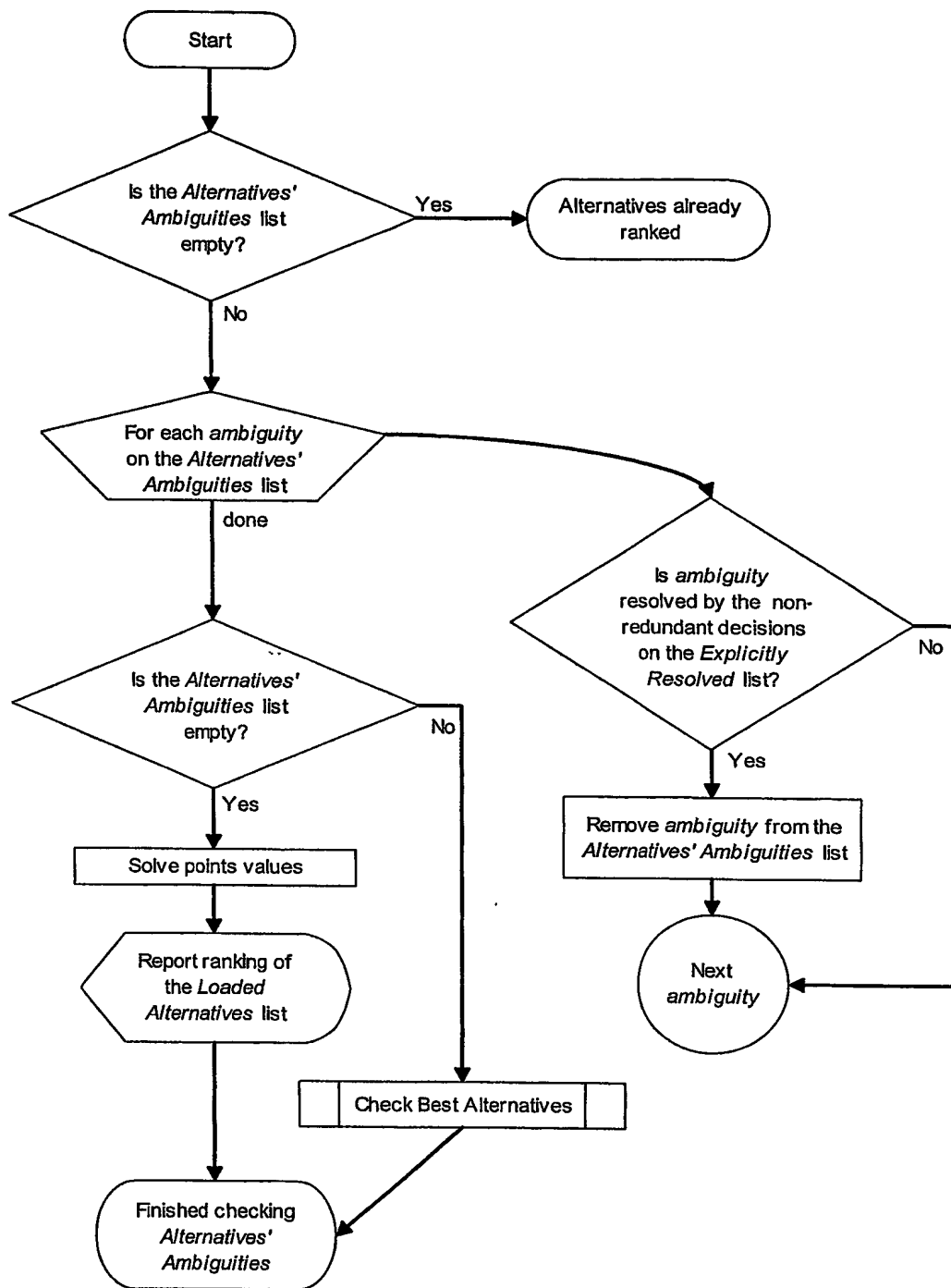


FIGURE 17

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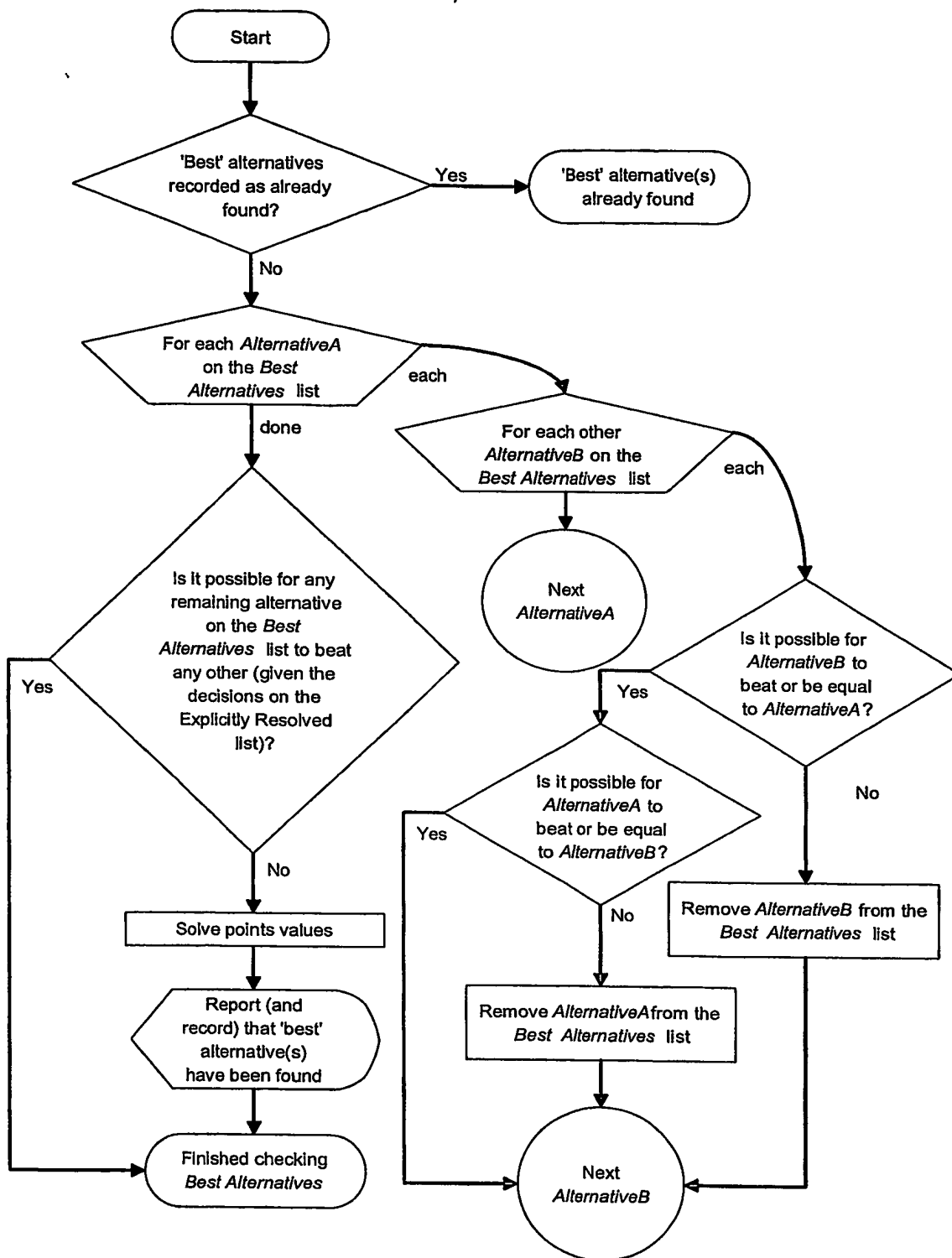


FIGURE 18

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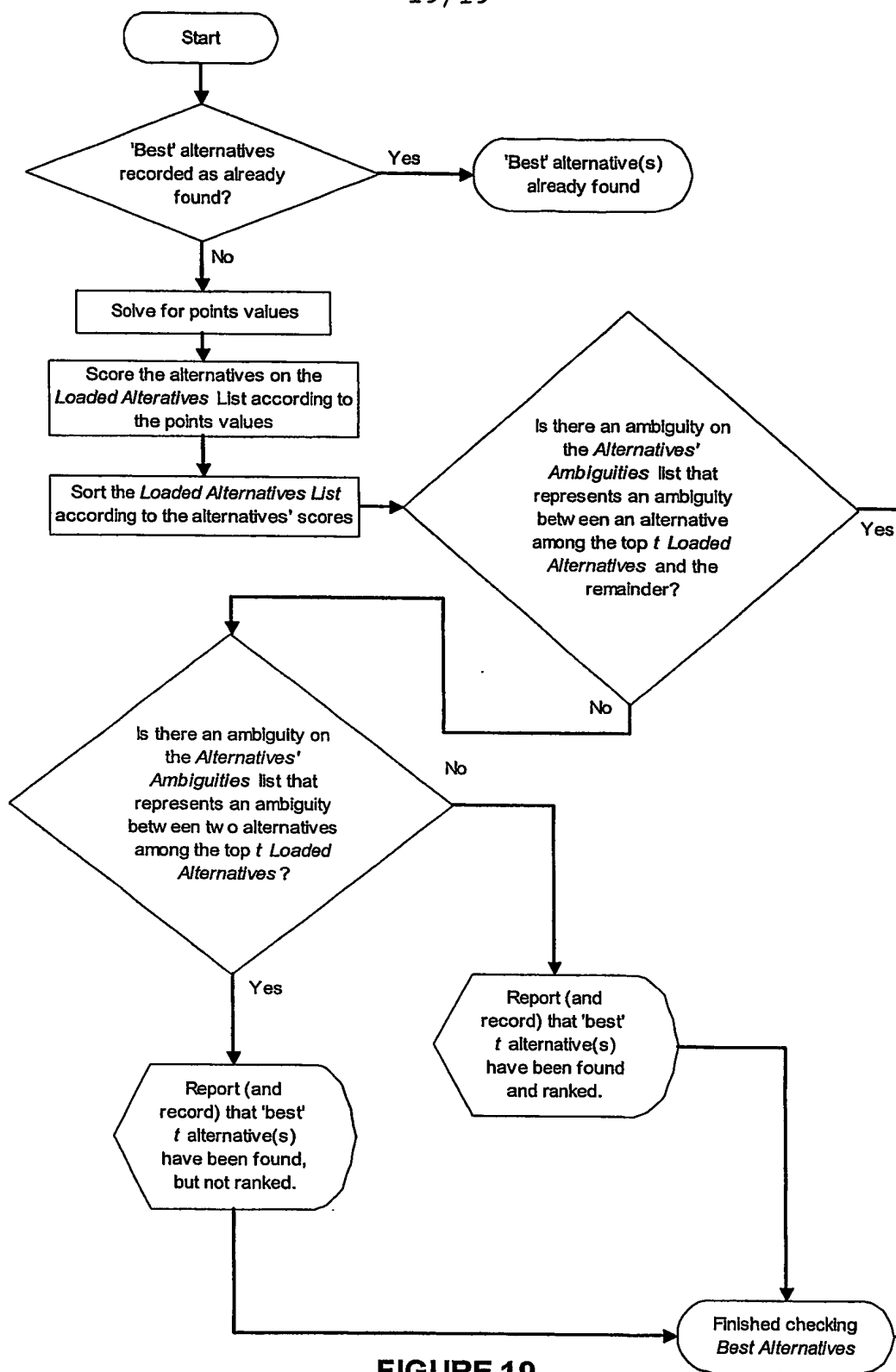


FIGURE 19